Application No. 10/804,188

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with strikethrough. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please **CANCEL** claims 5, 18, 20, 43 and 46 have been canceled without prejudice or disclaimer, and **AMEND** claims 1, 3, 6, 9, 14-16, 19, 21-23, 25, 40 and 44 in accordance with the following:

Claim 1 (Currently Amended): An information storage medium, comprising:

core mode data which comprises moving picture data, comprising eededan audio/video

(AV) stream data-of moving pictures, and navigation data controlling playback of the moving picture data:

full mode data which comprises browser mode data made using a markup language and an execution script and/or program mode data made using a program language; and

startup data which eemprisee-data-designatingdesignates one of the mode data to be initially reproduced among the core mode data, the browser mode data, and the program mode data, when the information storage medium is loaded into a reproducing apparatus,

wherein the browser mode data represents a markup language based browser function to enable a user to access information which is provided via a network, and

wherein the program mode data represents a program based interactive function to enable the user to interact and control playback of the moving picture data.

Claim 2 (Original): The information storage medium of claim 1, wherein each of the core mode data, the browser mode data and the program mode data comprises a link to another one of the mode data corresponding to a current mode or a different mode.

Claim 3 (Currently Amended): The information storage medium of claim 2, wherein, after the mode data to be initially reproduced is determined according to the startup data, afthe reproducing apparatus operates according to the determined mode data, and the startup data comprises link information so that a mode transition is executable during playback.

Claim 4 (Original): The information storage medium of claim 1, wherein the moving picture data further comprises playback unit data defining playback units in which the moving picture data is reproduced, and at least one among the navigation data, the browser mode data, and the program mode data comprises an Application Program Interface (API) reproducing the playback units.

Claim 5 (Canceled):

Claim 6 (Currently Amended): The information storage medium of claim 51, wherein:

when the startup data designates the core mode data, the startup data designates a first playback unit to be initially reproduced among the playback units;

when the startup data designates the browser mode data, the startup data designates a file made using a markup language and an execution script; and

when the startup data designates the program mode data, the startup data designates a file made using a program language.

Claim 7 (Original): The information storage medium of claim 4, wherein the startup data comprises core mode startup data and full mode startup data, the core mode startup data designating only the core mode data, the full mode startup data designating one among the core mode data, the browser mode data, and the program mode data.

Claim 8 (Original): The information storage medium of claim 7,

when the full mode startup data designates the core mode data, the full mode startup data designates a first playback unit to be initially reproduced among the playback units;

when the full mode startup data designates the browser mode data, the full mode startup

data designates a file made using a markup language and an execution script; and

when the full mode startup data designates the program mode data, the full mode startup data designates a file made using a program language.

Claim 9 (Currently Amended):

A reproducing apparatus for an aprising core mode data and startup

information storage medium-storing multimedia data comprising core mode data and startup data or core mode data, startup data and full mode data, the full mode data comprising at least one among browser mode data and program mode data, the reproducing apparatus comprising:

a reader which reads data from the-an information storage medium comprising core mode data which includes moving picture data and navigation data to control playback of the moving picture data, startup data, and/or full mode data which includes browser mode data and program mode data;

a presentation engine which decodes and reproduces the data read by the reader corresponding to moving picture etream-data;

a navigation engine which processes navigation data, in the read data, reproducing the moving picture etream-data;

a browser engine which processes the data read by the reader corresponding to the browser mode data for a markup language based browser function to enable a user to access information which is provided via a network;

a program engine which executes the data read by the reader corresponding to the program mode data for a program based interactive function to enable the user to interact and control playback of the moving picture data;

an application manager which determines one of the core mode data, the browser mode data, and the program mode data to be initially reproduced according to the startup data in the data read by the reader, controls an engine corresponding to the determined one of the mode data, and performs mode transition; and

a blender which blends an output of the presentation engine and at least one among an output of the browser engine and an output of the program engine into a single output.

Claim 10 (Original): The reproducing apparatus of claim 9, wherein the application manager initially reproduces the determined one of the mode data designated by the startup data, then processes another data corresponding to a current mode or a different mode

according to a link in the determined one of the mode data designated by the startup data, and performing the mode transition when necessary.

Claim 11 (Original): The reproducing apparatus of claim 10, wherein after the application manager determines the mode data to be initially reproduced according to the startup data, the application manager controls operations of the reproducing apparatus according to the determined mode data, and performs the mode transition during playback referring to link information in the startup data.

Claim 12 (Original): The reproducing apparatus of claim 9, wherein moving picture data stored in the information storage medium comprises the moving picture stream data and playback unit data defining playback units in which the moving picture stream data is reproduced:

at least one among the navigation data, the browser mode data, and the program mode data comprises an Application Program Interface (API) reproducing the playback units; and

when at least one among the navigation engine, the browser engine, and the program engine performs the API, the reproducing apparatus provides a signal controlling playback to the presentation engine to control playback of the moving picture stream data.

Claim 13 (Original): The reproducing apparatus of claim 12, wherein the startup data designates one among the core mode data, the browser mode data, and the program mode data.

Claim 14 (Currently Amended): The reproducing apparatus of claim 13, wherein:
when the startup data designates the core mode data, the startup data designates a first
playback unit to be initially reproduced among the playback units, and the navigation engine
processes the data designating the playback unit;

when the startup data designates the browser mode data, the startup data designates a file made using a markup language and an execution script, and the browser engine processes the data designating the file; and

when the startup data designates the program mode data, the startup data designates a file made using a program language, and the program engine processes the data designating

the file using the program language.

Claim 15 (Currently Amended): The reproducing apparatus of claim 12, wherein: the startup data comprises core mode startup data and full mode startup data, the core mode startup data designating only the core mode data, the full mode startup data designating one among the core mode data, the browser mode data, and the program mode data; and

when the full mode data is reproducible by the reproducing apparatus the reproducing apparatus initially reproduces data designated by the full mode startup data.

Claim 16 (Currently Amended): The reproducing apparatus of claim 15, wherein:

____when the full mode startup data designates the core mode data, the full mode startup
data designates a first playback unit to be initially reproduced among the playback units, and the
navigation engine processes the full mode startup data designating the playback unit;

when the full mode startup data designates the browser mode data, the full mode startup data designates a file made using a markup language and an execution script, and the browser engine processes the full mode startup data designating the file; and

when the full mode startup data designates the program mode data, the full mode startup data designates a file made using a program language, and the program engine processes the full mode startup data designating the file using the program language.

Claim 17 (Original): The reproducing apparatus of claim 9, wherein the application manager comprises a user input receiver and a user input processor to process a user's input, thereby controlling one of the presentation, navigation, browser and program engines corresponding to the user's input.

Claim 18 (Canceled):

Claim 19 (Currently Amended): A reproducing method for an information storage medium storing-multimedia data comprising core mode data and startup data or core mode data, startup data and full mode data core mode data which includes moving picture data and navigation data to control playback of the moving picture data, startup data, and/or full mode data which includes browser mode data and program mode data, the reproducing method

comprising:

setting one mode among a core mode and a full mode according to the startup data designating mode data to be initially reproduced among the core mode data and the full mode data: and

reproducing the core mode data or the full mode data according to the set mode,

wherein the moving picture data and the navigation data controlling playback of the
moving picture data are reproduced during the core mode, and

wherein at least one among the browser mode data made using a markup language and an execution script and the program mode data made using a program language is reproduced during the full mode.

Claim 20 (Canceled):

Claim 21 (Currently Amended): The reproducing method of claim 2019, wherein each of the <u>core mode data</u>, the browser mode data and the program mode data comprises a link <u>information</u> to other data corresponding to a current mode or data <u>corresponding to fer-a</u> different mode, the reproducing method further comprising reading the other data corresponding to the current mode or the data corresponding to the different mode according to the link comprised in each of the mode data and changing modes information when a mode change is needed necessary.

Claim 22 (Currently Amended): The reproducing method of claim 21, wherein after the mode data to be initially reproduced is designated according to the startup data, the reproducing the core made data or the full mode data further comprises performing mode transition during playback referring to a-link semprised information included in the startup data.

Claim 23 (Currently Amended): The reproducing method of claim 2919, wherein: the moving picture data further comprises playback unit data defining playback units in which the moving picture stream data is reproduced.

at least one among the navigation data, the browser mode data, and the program mode data comprises an Application Program Interface (API) reproducing the playback units, wherein and

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the moving picture stream data is reproduced by performing the API.

Claim 24 (Original): The reproducing method of claim 23, wherein the startup data designates one among the core mode data, the browser mode data, and the program mode data.

Claim 25 (Currently Amended): The reproducing method of claim 24, wherein:
_____when the startup data designates the core mode data, the startup data designates a
playback unit to be initially reproduced among the playback units;

when the startup data designates the browser mode data, the startup data designates a file made using a markup language and an execution script; and

when the startup data designates the program mode data, the startup data designates a file made using a program language.

Claim 26 (Original): The reproducing method of claim 23, wherein the startup data comprises core mode startup data and full mode startup data, the core mode startup data designating only the core mode data, the full mode startup data designating one among the core mode data, the browser mode data, and the program mode data.

Claim 27 (Original): The reproducing method of claim 26, wherein when the full mode startup data designates the core mode data, the full mode startup data designates a playback unit to be initially reproduced among the playback units; when the full mode startup data designates the browser mode data, the full mode startup data designates a file made using a markup language and an execution script; and when the full mode startup data designates the program mode data, the full mode startup data designates a file made using a program language.

Claim 28 (Original): An information storage medium, comprising: core mode data which comprises moving picture data and navigation data controlling a playback of the moving picture data in a core mode; and

full mode data comprising at least one of program mode data and browser mode data controlling at least one of a respective corresponding interactive program and browsing program,

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wherein the playback of the moving picture data is further controlled in response to an application program interface (API) in the at least one of the program mode data and the browser mode data.

Claim 29 (Original): The information storage medium of claim 28, further comprising:

startup data designating one of the core mode data and the full mode data to be reproduced upon initiating a reproduction of the information storage medium.

Claim 30 (Original): The information storage medium of claim 29, wherein the startup data further comprises links to the core mode data, the program mode data and the browser mode data, wherein a mode change from one of the program mode data to the core mode data to the other is carried out depending on the startup data designation.

Claim 31 (Original): The information storage medium of claim 28, further comprising:

startup data designating both the core mode data and the full mode data to be reproduced upon initiating a reproduction of the information storage medium.

Claim 32 (Original): The information storage medium of claim 31, wherein when the information storage medium is loaded in a reproducing apparatus which is unable to recognize the full mode data, the startup data initiates reproduction of only the core mode data.

Claim 33 (Original): The information storage medium of claim 32, wherein the core mode data does not comprise links corresponding to the mode change.

Claim 34 (Original): The information storage medium of claim 31, wherein when the information storage medium is loaded in a reproducing apparatus which recognizes the full mode data, the startup data selectively initiates reproduction of one of the core mode data and the full mode data prior to the other.

Claim 35 (Original): The information storage medium of claim 34, wherein the core mode data comprises links corresponding to entry points in the full mode data.

Claim 36 (Original): The information storage medium of claim 35, wherein the full mode data comprises links corresponding to entry points in the core mode data.

Claim 37 (Original): The information storage medium of claim 34, wherein the program mode data comprises links corresponding to entry points in the core mode data and the browser mode data, respectively.

Claim 38 (Original): The information storage medium of claim 34, wherein the browser mode data comprises links corresponding to entry points in the core mode data and the program mode data, respectively.

Claim 39 (Original): The information storage medium of claim 34, wherein the program mode data comprises links corresponding to entry points in the core mode data and the browser mode data, the browser mode data comprises links corresponding to entry points in the core mode data and the program mode data, and the core mode data comprises links corresponding to entry points in the program mode data and the browser mode data, wherein the respective entry points designate a portion of the corresponding one of the core mode data, the program mode data, and the browser mode data to be reproduced.

Claim 40 (Currently Amended): A reproducing apparatus using an information storage medium, comprising:

- a reader which reads startup data, core mode data and full mode data from the information storage medium;
 - a buffer which buffers the core mode data and the full mode data; and
- a reproducer which reproduces the startup data first and then reproduces the core mode data and the full mode data based on commands designating an order of reproduction of the core mode data and the full mode data.

wherein the core mode data comprises moving picture data and navigation data controlling playback of the moving picture data; and

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wherein the full mode data comprises browser mode data utilized for a markup language based browser function to enable a user to access information which is provided via a network, and program mode data utilized for a program based interactive function to enable the user to interact and control playback of the moving picture data.

Claim 41 (Original): The apparatus of claim 40, wherein the startup data designates only the core mode data to be reproduced first.

Claim 42 (Original): The apparatus of claim 40, wherein the startup data designates one of the core mode data and the full mode data to be reproduced first.

Claim 43 (Canceled):

Claim 44 (Currently Amended): The apparatus of claim 4342, wherein the reproducer comprises:

- a browsing engine reproducing the browsing mode data and executing the corresponding page unit called by the markup document;
- a program engine reproducing the program mode data and executing corresponding program commands;
- a navigation engine reproducing and executing navigation commands in the core mode data controlling reproduction of the core mode data;
- a presentation engine reproducing the core mode data in response to the navigation commands from the navigation engine; and
- an application manager controlling reproduction and mode conversion of the core mode data, the browsing mode data, and the program mode data based on the reproduced navigation commands, the page units, and the program commands,
- wherein the application manager controls the respective corresponding engine to reproduce and execute the startup data first.

Claim 45 (Original): The apparatus of claim 44, wherein the application manager controls the reproduction and mode conversion through an application program interface (API).

Claim 46 (Canceled):